

## Development of next generation particle beam telescope using OBELIX chips

*Tuesday 3 December 2024 16:00 (10 minutes)*

OBELIX will be the next chip in the succession line of the TJ-Monopix family. Implemented in Tower Semiconductor 180 nm technology, with its small pixel pitch (33  $\mu\text{m}^2$ ) and fast time precision (100 ns), OBELIX is designed targeting the vertex and tracker detectors for future e+e- collider experiments. In this contribution a first OBELIX-based telescope system will be proposed as possible infrastructure deliverable in DRD3 WG5.

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**Session Classification:** WG5 - Characterization